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(54) **ACTUATOR FAULTY OPERATION DETECTION  
CIRCUIT FOR MAGNETIC DISK DEVICE**

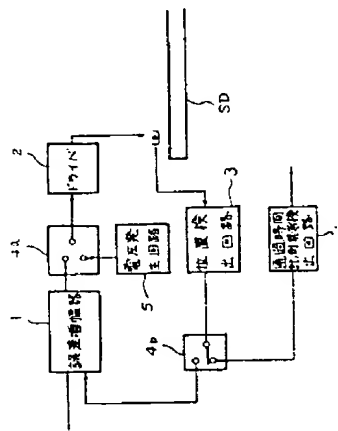
troubleshoot a fault.

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(57) Abstract:

**PURPOSE:** To detect quantitatively the faulty operation of an actuator by detecting a discontinuous operation of the actuator disconnected from the servo system in applying a prescribed voltage thereto.

**CONSTITUTION:** A changeover circuit 4a is thrown to the position of a voltage generating circuit 5 to position an actuator to the outermost circumference (or innermost circumference) position of a disk. A changeover circuit 4b is thrown to the position of a faulty detection circuit 6 to change the voltage generated by the circuit 5 thereby moving the actuator from the outer circumferential position to the inner circumferential position (or from the inner circumferential position to the outer circumferential position). The position information outputted from a position detection circuit 3 in this case is given to the circuit 6 via the circuit 4b. When a foreign material is invaded in the actuator, there occurs a fluctuation in the speed of the actuator or the passing time and the measurement value is varied. The circuit 6 detects the fluctuation component to



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